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(F)

Patents
Chem Res

To: Art Palmer Date: October 21, 1982
From: David Williams, Rett Southwick, Yoram Houminer
Subject: Patentability of Specific Acylpyrazines as Smoking Composition

During our meeting with George Depaoli in Richmond on October 14, 1982, the above subject was discussed in general terms. In response to George's request, we enclose herewith additional information regarding the flavor properties of some acylpyrazines. All the compounds that are listed in the enclosed table are examples that were previously described in PM 1030 ("Production of monoacylpyrazines" USSN 307,262). Thus, all the necessary experimental data can be found in the above application.

We would like to emphasize the following:

1. Despite claim 1 of US 3,881,025 where a generic formula is claimed, all of the acylpyrazines presented in the enclosed table are novel.
2. The acylpyrazines are listed in order of preference with regard to their subjective smoking evaluation. (1 and 2 are in particular important).
3. The acylpyrazines (1-5) have unusual flavor properties, which are very different from the "popcorn like aroma" or "cooked potato aroma" usually ascribed to acylpyrazines (U.S. 3,402,051 and U.S. 3,767,428).
4. There are two patents, U.S. 3,917,872 and U.S. 3,914,227 which claim acylpyrazines covered by the generic structure of U.S. 3,881,025.
5. We suggest claiming smoking composition for each of the acylpyrazines 1-5, on the basis of their unique flavor properties not predictable based on prior art.

/ds

cc: S. Hutcheson
T. Osdone
E. Sanders ✓

Enclosure

David L. Williams

Rett Southwick

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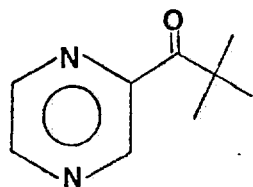
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TABLE

Acylpyrazine

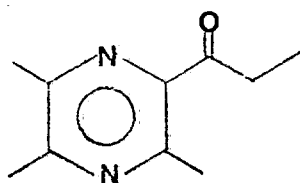
Subjective test^a

1)



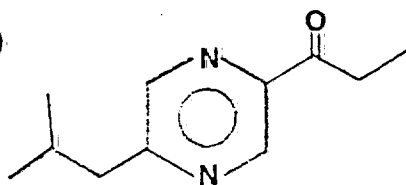
fruity, apple like, like ethyl
3-methylvalerate

2)



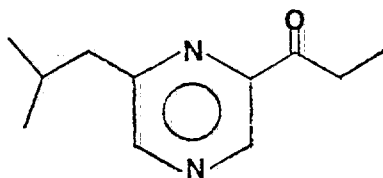
fuller, more response
slightly chocolate

3)



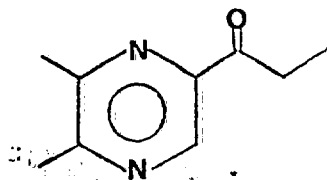
sweet chocolate

4)



pleasant, woody, sweet

5)



sweet chocolate

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a. Results were obtained by a smoking panel. Level of application: 70-100ppm
of flavorant per cigarette.

T S. OSDENE
OCT 22 1982

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